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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO. 9376
09/891,486	06/25/2001	Hideo Yokota	8305-210US (NP102-1)	
570	7590 06/05/2003			
	IP STRAUSS HAUER &	EXAMINER		
2005 MARK	ERCE SQUARE ET STREET, SUITE 2200	MCAVOY, ELLEN M		
PHILADELP	HIA, PA 19103-7013		ART UNIT	PAPER NUMBER
			1764	1/:
			DATE MAILED: 06/05/2003	4

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No.  OBBS 1.888  ORFICE Action Summary  Application No.  OBBS 1.888  ORFICE Action Summary  Art Unit  Elein M McAvoy  1764  Art Unit  Fig. Blein M McAvoy  Art Unit  Fig. Blein M McAvoy  Art Unit  Fig. Blein M McAvoy  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM  THE MAILING DATE OF THIS COMMUNICATION.  THE MAILING DATE OF THIS COMMUNICATION  THE MAILING DATE OF THIS COMMUNICATION  As HORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM  THE MAILING DATE OF THIS COMMUNICATION.  The prinde for reply seedied above is less then birly (30) days, a reply which the abundon prindrum of thing (30) days will be considered firmly.  The prinde for reply seedied above is less then birly (30) days, a reply which the abundon prindrum of thing (30) days will be considered firmly.  The prinde for reply seedied above is less then birly (30) days, a reply which the abundon prindrum of thing (30) days will be considered firmly.  The prinde for reply seedied above is less then birly (30) days, a reply which the abundon prindrum of thing (30) days will be considered firmly.  The prinde for reply seedied above is less then birly (30) days, a reply which the abundon prindrum of thing (30) days will be considered firmly.  The prindrum of this application is in condition for all owners will be above the seed of the communication.  The seed of this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Expare Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  Applications   1-1, 1-1, 1-1, 1-3, 1-3, 1-3, 1-3, 1-4, 1-4, 1-3, 1-3, 1-3, 1-4, 1-4, 1-3, 1-3, 1-4, 1-4, 1-3, 1-3, 1-4, 1-4, 1-3, 1-3, 1-4, 1-4, 1-3, 1-3, 1-4, 1-4, 1-4, 1-4, 1-4, 1-4, 1-4, 1-4		_				1/2				
Examin r    Elian M.McA-voy	•		Application No		Applicant(s)					
Filen M McAvoy   1764			09/891,486		YOKOTA ET AL.					
The MALLING DATE of this communication appears on the cover shill the correspond noe address Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Educations for the map by a validate offer the provision of 37 CPE 1.13(s). In or event, however, may a reply be timely filed and the provision of the map by a validate offer the provision of 37 CPE 1.13(s). In or event, however, may a reply be timely filed and the provision of the provision of 37 CPE 1.13(s). In or event, however, may a reply be timely filed and the provision of the provision of 37 CPE 1.13(s). In or event, however, may a reply be timely filed and the provision of the provision of 37 CPE 1.13(s). In order to the provision of the provisi		Office Action Summary	Examin r		Art Unit					
Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MALLING DATE OF THIS COMMUNICATION.  Extensions of time may be available under the proteiners of 37 CFR 1.13(a). In no event, however, may a reply be timely filed  Extensions of time may be available under the proteiners of 37 CFR 1.13(a). In no event, however, may a reply be timely filed  Extensions of time may be available under the proteiners of 37 CFR 1.13(a). In no event, however, may a reply be timely filed  Extensions of time may be available under the proteiners of 37 CFR 1.13(a). In no event, however, may a reply be timely filed  If NO period for reply is specified above, the maximum statistic reply within the statistic proteins of 1.13 can be available of 1.1			Ellen,M McAvoy		1764					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ② MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Extensions of time may be available under the procedure of 32 CPR 1.73(a). In or event, however, may a reply be timely filled  * If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered strinely.  * If the period for reply specified above is less than thirty (30) days, a reply within the statutory printing of the first (50) MONTHS from the mailing date of bis communication.  * Failune to reply value his based or advantage and string the string of the reply value and string the string of the reply value and string the string of the stri										
2a)  This action is FINAL. 2b) This action is non-final.  3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) 1-7.10.11.13-15 and 17-24 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) 1-6.10.11.13-15.18.19 and 24 is/are rejected.  6) Claim(s) 1-6.10.11.13-15.18.19 and 24 is/are rejected.  7) Claim(s) 7 and 21-23 is/are allowed.  Application   Claim(s) 2 and 21-23 is/are objected to.  8) Claim(s) -6.10.11.13-15.18.19 and 24 is/are rejected.  7) Claim(s) 7 and 21-23 is/are objected to.  8) Claim(s) — are subject to restriction and/or election requirement.  Application Papers  9) The specification is objected to by the Examiner.  10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.  If approved, corrected drawings are required in reply to this Office action.  12) The oath or declaration is objected to by the Examiner.  Priority under 35 U.S.C. §§ 119 and 120  13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some ° c) None of:  1. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in his National Stage application from the International Bureau (PCT Rule 17.2(a)).  *See the attached detailed Office action for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  a) The translation of the foreign language provisional application has been received.  15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 120 and/or 121	A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).									
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6) ☐ Claim(s) 1-6,10,11,13-15,18,19 and 24 is/are rejected.  7) ☐ Claim(s) 7 and 21-23 is/are objected to.  8) ☐ Claim(s) are subject to restriction and/or election requirement.  Application Papers  9) ☐ The specification is objected to by the Examiner.  10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.  If approved, corrected drawings are required in reply to this Office action.  12) ☐ The oath or declaration is objected to by the Examiner.  Priority under 35 U.S.C. §§ 119 and 120  13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☐ All b) ☐ Some * c) ☐ None of:  1. ☐ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No  3. ☐ Copies of the certified copies of the priority documents have been received in Application From the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  a) ☐ The translation of the foreign language provisional application has been received.  15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.  Attachment(s)  Under of References Cited (PTO-892)    Okolice of References Cited (PTO-152)										
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Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action.  12) The oath or declaration is objected to by the Examiner.  Priority under 35 U.S.C. §§ 119 and 120  13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  a) The translation of the foreign language provisional application has been received.  15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.  Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  5) Notice of Informal Patent Application (PTO-152)										
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## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-6, 10-11, 13-15, 18, 19 and 24 are still rejected under 35 U.S.C. 103(a) as being unpatentable over Zielinski (5,756,430).

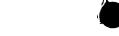
Applicants' arguments filed 7 April 2003 have been fully considered but they are not persuasive. As previously set forth, Zielinski discloses a mist oil lubricant which distributes fine droplets of oil compositions in aerosol form to the areas of various machine elements to be lubricated. The compositions comprise (A) 90-95 percent by weight of an ester oil having a viscosity of 10-150 cSt at 40°C; (B) 3-5 percent of an additive selected from rust and corrosion inhibitors including dibasic acids, anti-wear agents such as sulfurized fatty acids, anti-foam agents, antioxidants such as arylamines and phenolic antioxidants, demulsifiers such as monohydric alcohols, extreme pressure agents and mixtures thereof, and (C) 1-5 percent of a polyisobutylene stray mist suppressant, which meets the claim limitation of 0 to 70 percent by mass of a base oil, because applicants teach in the specification on page 26 that suitable base oils include polybutenes. See the claims of Zielinski. The examiner is of the position that component (B) of Zielinski meets the limitations of several of the oiliness improvers cited in the dependent claims such as alcohols and sulfurized fatty acids. Suitable ester oils are set forth in col. 2, lines 23-41, and include straight and branched chain alkyl esters of aromatic or aliphatic

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polycarboxylic acids. Applicants argue that Zielinski does not teach or suggest the application of the oil composition to metal working, in particular cutting and grinding. Zielinski does teach applying the oil composition to "a metal surface to be lubricated". See claim 7. Independent claim 1 is drawn to an oil composition comprising up to 100% by mass of an ester, any ester, which has a kinematic viscosity of 1 to 100 mm<sup>2</sup>/s at 40°C. As previously set forth, the intended use language of independent claim 1 of "a cutting or grinding oil composition for a minimal quantity lubrication system" carries little if any weight in the composition claim. As set forth in MPEP 2111.02, intended use recitations and other functional language in the preamble cannot be entirely disregarded. However, the intended use must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. Thus, the intended use may further limit the claim if it does more than merely state the purpose or intended use. Here, the preamble merely states an intended use which fails to further limit the composition. Thus, the examiner maintains the position that the mist oil lubricant of Zielinski clearly meets the limitations of the oil composition of independent claim 1 and of claims depending from independent claim 1 containing additional additives which are also taught as suitable additives by Zielinski.

Applicants also argue that Zielinski does not teach or suggest that the oil composition have a kinematic viscosity of 1 to 100 mm<sup>2</sup>/s (cSt) at 40°C as claimed. As previously set forth, Zielinski teaches that the ester oil, which comprises 90-95% of the composition, has a viscosity of 10-150 cSt at 40°C. The examiner is of the position that the final oil composition, which may



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contain 1-5% of a polyisobutylene stray mist supressant having a molecular weight from about 400 to 2500, may and most likely does have a final viscosity of less than 100 cSt at 40°C to be within the claimed range for viscosity.

The rejection of claims 1, 7, 10, 11 and 20-23 under 35 U.S.C. 103(a) as being unpatentable over Koyama et al (5,171,903), alone, or in combination with Ott (6,085,782) has been withdrawn in view of applicants amendments and arguments.

## Allowable Subject Matter

Claims 17, drawn to a minimal quantity lubrication system for cutting and grinding, and claim 20, drawn to a method for cutting or grinding a work, are allowed.

Claims 7, 21, 22 and 23 which limit the ester component to the reaction between a polyhydric alcohol and a monobasic acid, are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

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will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ellen M McAvoy whose telephone number is (703) 308-2510. The examiner can normally be reached on M-F (7:30-5:00) with alt. Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenn Caldarola can be reached on (703) 308-6824. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9310 for regular communications and (703) 872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

Primary Examiner

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**EMcAvoy** June 4, 2003